

Abstract

The invention relates to a method for determining a mimotope sequence for a receptor, comprising the steps of:

- a) providing a library of test sequences;
- b) determining the activity of each test sequence of the library towards the receptor;
- identifying a test sequence comprising at a certain position a building block which, according to the results of step b), is favored at said position;
- d) providing a next library of test sequences, based on said test sequence identified in step c), by replacing a building block at selected positions of the identified test sequence with selected building blocks;
- e) determining the activity of each test sequence of the library provided in step d) towards the receptor;
- f) identifying a test sequence comprising at a certain position a building block which, according to the results of step e), is favored at said position;
- g) repeating steps d) - f) for the library of test sequences provided in step d), for a number of cycles sufficient for finding in step f) a mimotope sequence that gives sufficient activity towards the receptor.